

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Withdrawn) A surgical device for producing work in the body comprising an implantable unit including a transducer, said transducer having a dielectric polymer film disposed between two electrodes, said electrodes connected to an electrical lead, said film having an initial position with a first size and an excited position with a different second size, said transducer accomplishing work resulting from said film transitioning from said first position to said second position.

Claim 2. (Withdrawn) A surgical device of claim 1 wherein said transducer is adapted to be placed within a bone with said film in said initial position, said film expanding to said second different position by electrical impulse applied to said electrodes through said lead, said film returning to said first position upon cessation of said electrical impulse whereby said transducer forms an internal cavity in the bone.

Claim 3. (Withdrawn) A surgical device of claim 1 wherein said transducer is adapted to be placed within a bone with said

film in said initial position, said film expanding to said second different position by electrical impulse applied to said electrodes through said lead whereby said transducer forms an internal splint in the bone.

Claim 4. (Withdrawn) A surgical device of claim 1 wherein a pump is adapted to be implanted in the body, said pump having an output port connected to a flexible reservoir of variable volume, said reservoir adapted to be filled with a medicament, said reservoir having a refill port for percutaneous refilling of said reservoir, said transducer in contact with said reservoir, said film reducing the volume of said reservoir when transitioning from said first position to said second position.

Claim 5. (Withdrawn) A surgical device of claim 4 wherein said reservoir is adapted to be empty, said outlet port is adapted to receive body fluids, said transducer in contact with said reservoir with said film in said second position, said film transitioning from said second position to said first position as said reservoir fills, said change in position generating an electrical impulse through said electrodes and said electrical lead.

Claim 6. (Withdrawn) A surgical device of claim 1 wherein said transducer is adapted to be inserted in the intervertebral disk space in said second position, said capacitor accomplishing work by transitioning from said first position to said second position by compression of said intervertebral space and generating electrical impulse through said lead.

Claim 7. (Currently Amended) In an orthopedic system having a guide wire for percutaneous penetration and insertion through a bone having a cortical portion and a cancellous portion, a cannula for telescoping insertion along said guide wire and penetration into the cancellous portion of the bone, the improvement comprising an electroactive polymer sandwiched between electrodes having a first state with an initial position having a ~~ef-~~ size and shape for insertion through said cannula into the cancellous portion of the bone, said electroactive polymer having malleable properties including changes of size and shape, a source of electrical energy for stimulating said electrodes, said electrodes having an electrical connection with said source whereby activation of said source excites said electrodes causing said malleable properties to change to a second state, said second state having size of at least one of said size and said shape of said electroactive polymer ~~and~~ to alter the bone, said electroactive polymer returning to said

first state when said source of electrical energy is disconnected from said electrodes.

Claim 8. (Original) In an orthopedic system of claim 7 wherein at least one of said size and said shape of said electroactive polymer expands and alters the cancellous portion to produce a cavity in said cancellous portion.

Claim 9. (Cancelled)

Claim 10. (Original) In an orthopedic system of claim 7 wherein at least one of said size and said shape expands to alter said cortical portion of the bone.

Claim 11. (Cancelled)

Claim 12. (Currently Amended) A transducer for insertion into a bone for altering the cancellous portion comprising an electroactive polymer with malleable properties sandwiched between opposing electrodes, said electroactive polymer having a first state with an initial position ~~of~~ having a size and shape to be inserted into the cancellous portion of a bone, an electrical energy source electrically connected to said electrodes, said

malleable properties of said electroactive polymer changing to a second state in response to electrical stimulation, connection to and an said electrical energy source, said second state having, ~~said electrodes electrically connected to said source whereby~~ ~~activation of said source results in changed properties of said electroactive polymer~~ at least one of said size and said shape of said electroactive polymer ~~and altered~~ to alter the bone, said electroactive polymer returning to said first state when said source of electrical energy is disconnected from said electrodes.

Claim 13. (Cancelled)

Claim 14. (Original) A method of forming a cavity within a bone having a cortical body and a cancellous interior comprising the steps of

- a) inserting a cannula through the cortical body of a bone into said cancellous interior, said cannula including an aperture, a transducer spanning said aperture, said transducer having an initial position and a second position,
  - b) connecting said transducer to a source of electrical energy, and
  - c) said transducer transitioning to said second position, said second position being larger than said initial position
- whereby said cancellous interior is compressed to form a cavity.

Claim 15. (Withdrawn) A method of forming a cavity of claim 14 comprising the steps of

- a) providing a separate transducer with a frame,
- b) depositing said transducer in said cancellous interior in said initial position, and
- c) withdrawing said cannula.

Claim 16. (Withdrawn) A method of infusing a medicament from a variable volume pump comprising the steps of

- a) providing a pump having a body with a reservoir and an infusion port connecting said reservoir with said exterior of said body, a flexible diaphragm connected to said body in said reservoir separating said reservoir into two chambers, a transducer in one chamber, and a medicament in said second chamber,
- b) said transducer having an initial position and a second position,
- c) applying an electrical charge to said transducer,
- d) said transducer transitioning from said initial position to said second larger position

whereby said first chamber is enlarged and said second chamber is decreased and said medicament is expressed from said infusion port.

Claim 17. (Withdrawn) A method of infusing a medicament of claim 16 comprising the steps of

- a) providing said transducer as said diaphragm.